BRUHATH BANGALORE MAHANAGARA PALIKE, DASARAHALLI ZONE

EXCECUTIVE ENGINEER, PROJECT DIVISION

SCHEDULE - B

NAME OF WORK :- Construction of Ambedkar samudaya Bhavana at Mallasandra in ward No.13.

Name of the Contractor:Narahari.D (Benaka Developers & Projects Pvt Ltd.,)				
Sl No	Description of Work	Unit	Approved	
			Qty	Rate
1	Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications. as per the direction of engineer in charge	Cum	1618.80	314.00
2	Earthwork excavation for foundation of buildings, water cum supply, sanitary lines and electrical conduits either in pits or in trenches1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m.after breaking of clods complete as per specifications, as per the direction of engineer in charge.	Cum	682.31	474.00
3	Extra for additional lift of 1.5m. or part thereof for excavation In loose / soft or hard rock including cost of materials, labour complete as per specifications, as per the direction of engineer in charge.	Cum	169.90	28.00
4	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier underand around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured) as per the direction of engineer in charge.	Sqm	287.51	117.00
5	Providing and laying in position plain cement concrete of cum mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. as per the direction of engineer in charge	Cum	86.09	5300.00
6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. as per the direction of engineer in charge	Cum	35.56	4750.00
7	Providing and constructing granite / trap / basalt size stone masoniy in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. as per the direction of engineer in charge	Cum	11.45	5677.00

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8	Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super piasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excludingcost of reinforcement as per specifications.Specification No. KBS Specification No. as per the direction of engineer in charge	Cum	159.11	6534.00
9	Filling available excavated earth (excluding rock) in sides cum of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. as per the direction of engineer in charge	Cum	341.15	160.00
10	Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications, as per the direction of engineer in charge	Cum	356.77	320.00
11	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm cum and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, Unties, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fiHets Etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications, as per the direction of engineer in charge	Cum	174.24	6687.00
12	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. as per the direction of engineer in charge	Sqm	21.48	478.00
13	Providing and casting reinforced cement concrete racks with design mix M20, granite or trap jelly 12mm and down size 5 cms thick and below with reinforcements of 6mm dia MS bars at 15 cms. Centre to centre for main reinforcement and at 30cm centre to centre for distribution including supports wherever necessary with burnt brick in CM 1:4 including centring, form work, curing etc., complete (inclusive of cost of steel and fabrication charges).	Sqm	10.20	932.00
14	Providing RCC loft (atta) 7.5cms thick with cement concrete design sqm mix M20 using clean granite or trap jeiiy of 20mm and down size with necessary reinforcements at 20cms centre to centre as per design including form work, centring, curing, etc., complete (exclusive of cost of steel and fabrication charges).	Sqm	10.54	473.00

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15	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded cum granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, nciuding cost of all materials, labour, HOM of machinery, curing complete as per specifications. as per the direction of engineer in charge	Cum	3.61	5714.00
16	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons.	Sqm	169.98	262.00
17	Providing and removing centering, shuttering, strutting, Sqm. propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. as per the direction of engineer in charge	Sqm	234.75	461.00
18	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons.up to 3.50m from Ground level. as per the direction of engineer in charge	Sqm	528.94	395.00
19	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. as per the direction of engineer in charge	Sqm	46.65	855.00
20	Providing and removing centering, shuttering, strutting, Sqm propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. as per the direction of engineer in charge	Sqm	1054.98	323.00
21	Providing and removing centering, shuttering, strutting, Sqm propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications. as per the direction of engineer in charge	Sqm	30.45	340.00
22	Providing and removing centering, shuttering, strutting, gqm propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. as per the direction of engineer in charge	Sqm	30.79	599.00
23	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. as per the direction of engineer in charge	Tonne	41.29	70658.00
24	Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of classdesignation S.ONewton per sqmm (table moulded) with cement mortar1:6 for basement and superstructu/re including cost of materials, labourcharges, scaffolding, curing complete as per specifications.as per the direction of engineer in charge	Cum	114.01	7583.00
25	Providing Teak wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. as per the direction of engineer in charge	Cum	0.15	210887.00

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27	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. as per the direction of engineer in charge	Cum	0.91	116671.00
28	Providing and fixing in position shutters for doors made out of Honne wood styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 18mm thick of exterior grade Melamine impregnated prelamination particle board of approved colour on both sides including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures)as per the direction of engineer in charge	Sqm	21.42	4085.00
29	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raui plugs, or teak wood gatties including cutting masonry or concrete and making good the originai surface using cement mortar, aluminium sections pretreated for removal	Sqm	52.38	4422.00
30	Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28kg/m all duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows, not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenonned and revetted into the frames electrically. AH the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour charges and HOM of machinery complete as per specifications.	Sqm	4.59	3375.00
31	Providing and fixing M.S.grill work for windows and ventilators using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. as per the direction of engineer in charge	Kgs	1196.37	88.00

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32	Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification. as per the direction of engineer in charge	Sqm	832.75	295.00
33	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specification as per the direction of engineer in charge	Sqm	1136.84	278.00
34	Providing 12mm thick cement piaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification. as per the direction of engineer in charge	Sqm	599.94	243.00
35	Flooring with 25mm thick polished tandur blue stone Sqm slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. Specification No. KBS as per the direction of engineer in charge	Sqm	69.67	1272.00
36	"Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid with a bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials, mortar and labours etc., complete as per specificationsusing silver grey granite / Multy Red / Ruby Red I Black / Hassan Green Granite of width not less than 1200mm as per the direction of engineer in charge "	Sqm	721.62	2971.00
37	Providing skirting, dadoing, rises of steps with colour glazed tiles 15x15cmc 6mm on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16,14.17	Sqm	81.02	1216.00
38	Providing and laying cinder concrete in cement 1:15 cum 1,902.00 (1 cement: 15 cinder of 12.5mm nominal gauge) on terraced roof or sunken slabs, laid to slope compacting, including cost of materials, labour, curing complete as per specifications.specification	Cum	19.92	2157.00
39	Providing INTEGRAL CRYSTALINE Waterproofing treatment to thesunken portion of Toilets. Using Crystalline Slurry of approved make @ 1.4kg per SQM in two coats (0.7 kg per sqm per coat) conforming to ASTM C 1202 & DINV 18998 standards. as per the direction of engineer in charge	Sqm	9.00	545.00
40	Extra for water proofing the inside surface of tanks (OHT & UGT) - applying of modified polymers soft acrylic esters coat @ 0.40kg/sqm in 2 coats including all labour charges tools and equipment's, all complete as per the specification. as per the direction of engineer in charge	Sqm	70.00	323.00
41	Providing and fixing plaster mesh 150mm wide manufactured out of hot dipped galvanised iron of nominal thickness 0.35mm with a zinc coating of 120gms per sqm width, along route of walls chipped for services, junction between RCC and brick walls including cost of materials, labour for fixing complete as per specifications, (length of mesh only be measured for payment) as per the direction of engineer in charge	M	642.00	46.00

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42	Fabrication supplying and erecting M.S. tubular trusses of all spans as Kgs per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick t| base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification as per the direction of engineer in charge	Kg	10153.54	124.00
43	Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550mpa steel grade, 5-7 microns as per the direction of engineer in charge	Sqm	391.00	873.00
44	0179 Handles to full width 2m long as per the direction of engineer in charge	Each	10.00	1146.00
45	0188 Hinges 5" heavy duty as per the direction of engineer in charge	Each	78.00	42.00
46	0427 Tower bolt 300 mm long as per the direction of engineer in charge	Each	62.00	136.00
47	Providing Screws as per the direction of engineer in charge	Each	370.00	3.00
48	0220 Locking arrangements as per the direction of engineer in charge	Each	12.00	737.00
49	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervalsof 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, weided and grinded wherever necessary etc., complete . The work includes cost of ail materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing. as per the direction of engineer in charge	Sqm	44.77	3001.00
50	Aluminum plain/perforated/Mirror finish false ceiling VT-09 (Vertical drop 9 mm) Supply and installation of Aluminum powder coated false ceiling proof panel size 600x600mmx9mm drop, Noncombustible fire proof humidity proof, Aesthetic, fabricated from enameled coated sheet of thickness 0.8mm, panel shall be painted by powder coating process with polyester paints and with secular mirror finish, shining lacquered plain or decorated on outer surface, it shall be suspended with the frame work and accessories complete from roof slabs, beams etc., by means of 4mm dia GO J bolt Tee runner, ultra look Tee Runner and edge trim etc.,	Sqm	373.92	7810.00

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51	THERMAL INSULATION OF ROOF WITH EXPANDED POLYSTYRENE Providing and fixing expanded polystyrene (EPS) 50mm thick with aluminium strips at every 600mm c/c over existing false ceiling for thermal insulation of roofing including necessary fasteners etc., complete (excluding cost of screed concrete which is to be measured and paid seperately) with all lead and lift, transportation charges, loading unloading charges,all taxes, cost of all materials, labour, HOM of machinery, scaffolding etc., as per the direction of engineer in charge	Sqm	373.92	735.00
52	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. as per the direction of engineer in charge	Sqm	1736.79	28.00
53	"Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification as per the direction of engineer in charge . Area to be considered - (a) 100% for fresh surface (b) Upto 10 % for repainting"	Sqm	1736.79	63.00
54	Providing and applying painting with primer in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. as per the direction of engineer in charge	Sqm	1736.79	102.00
55	Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and shade on ceiling and / or sloping roof as per specifications. as per the direction of engineer in charge	Sqm	1736.79	5.00
56	Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles, the surface is then cleaned with water and ensured that it is in line and level. The textured material is then mixed with 40-50% of clean water until a homogeneous thick slurry is formed, the slurry is left for 5-10 min, to react completely with ingredients. The textured finish prepared as above is then applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel to get the desired finish. The finished surface shall be applied with two coats of exterior paint of approved shade. The rate includes providing and removing scaffolding, all lead and lift and all other incidental charges	Sqm	832.75	395.00
57	Applying priming coat over new wood surface and / or wood based surface after preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, complete as per specifications as per the direction of engineer in charge	Sqm	124.57	47.00
58	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials,labour, complete as per specifications. as per the direction of engineer in charge	Sqm	74.30	95.00
59	Extra over Item No. 15-17.6 for applying every subsequent coat of enamel paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, sand papering includingcost of materials, labour, complete as per specifications. as per the direction of engineer in charge	Sqm	74.30	54.00

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	Providing and applying polishing with french polish on new wood surface and / or wood based surface to give an even surface after cleaning the surface of all dirt, dust and foreign matter, sand papered smooth, including cost of wood filler and materials, labour, complete as per specifications. as per the direction of engineer in charge	Sqm	124.57	153.00
61	Providing and fixing white vitreous china clay, water pan closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, (approved make) cutting and making good the wall and floor wherever required, including cost of materials, labourcomplete as per specifications. Specification No. KBS 11	pan	1.00	2270.00
62	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11	Each	1.00	5388.00
63	Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a single 15mm C.P brass pillar tap with C.I I M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. as per the direction of engineer in charge	Unit	5.00	3159.00
64	Providing and fixing kitchen sink of white glazed fire clay of size 750x450x250mm with M.S / C.I brackets, C.P brass chain with rubber plug, 32 mm C.P. brass waste, tap with union, brass stop cock complete, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials,labour complete as per specifications.as per the direction of engineer in charge	Unit	1.00	4248.00
65	0114 Copper plated brass piller tap as per the direction of engineer in charge	Each	15.00	263.00
66	Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C, top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. as per the direction of engineer in charge	No	3.00	8874.00
67	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the wallsetc.) as per the direction of engineer in charge 20 MM Pipe	M	100.00	221.00
68	25 MM Pipe	M	100.00	263.00
69	32 MM Pipe	M	100.00	326.00

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	Providing and applying polishing with french polish on new wood surface and / or wood based surface to give an even surface after cleaning the surface of all dirt, dust and foreign matter, sand papered smooth, including cost of wood filler and materials, labour, complete as per specifications. as per the direction of engineer in charge	Sqm	124.57	153.00
61	Providing and fixing white vitreous china clay, water pan closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, (approved make) cutting and making good the wall and floor wherever required, including cost of materials, labourcomplete as per specifications. Specification No. KBS 11	pan	1.00	2270.00
62	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11	Each	1.00	5388.00
63	Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a single 15mm C.P brass pillar tap with C.I I M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. as per the direction of engineer in charge	Unit	5.00	3159.00
64	Providing and fixing kitchen sink of white glazed fire clay of size 750x450x250mm with M.S / C.I brackets, C.P brass chain with rubber plug, 32 mm C.P. brass waste, tap with union, brass stop cock complete, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials,labour complete as per specifications.as per the direction of engineer in charge	Unit	1.00	4248.00
65	0114 Copper plated brass piller tap as per the direction of engineer in charge	Each	15.00	263.00
66	Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C, top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. as per the direction of engineer in charge	No	3.00	8874.00
67	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the wallsetc.) as per the direction of engineer in charge 20 MM Pipe	M	100.00	221.00
68	25 MM Pipe	M	100.00	263.00
69	32 MM Pipe	M	100.00	326.00

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70	roviding and fixing to wall, ceiling and floor unplasticised PVC 110 mm Dia 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. as per the direction of engineer in charge	M	20.00	433.00
71	Providing and fixing unplasticised PVC with 110mm outer dia pipes 10.00 kg/sq.cm working pressure chemp plast I Wavin or equivalent make with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. as per the direction of engineer in charge	M	100.00	723.00
72	Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 :1996 with manhole lid and suitable locking\ arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per spedfications.(For1000 litre capacity) as per the direction of engineer in charge	No	2.00	8893.00
73	Submersible Single Phase 1.0HP/75KW Stage 15 as per the direction of engineer in charge	No	1.00	16490.00
74	Providing and fixing 453x357mm dia rectangular Unit shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. as per the direction of engineer in charge	Unit	4.00	1239.00
75	Providing and fixing 600x120mm glass shelf supported on aliuminium angle frame with C.P brass brackets, guard rail fixed to wooden cleats with C.P. brass screws and washers including cost of materials, labour complete as per specifications. as per the direction of engineer in charge	Unit	2.00	1282.00
76	Providing and fixing sand cast iron soil waste double unequal junction of required degree 100x100x75x75mm, including cost of materials, labour, testing complete as per specifications. as per the direction of engineer in charge	Each	2.00	1238.00
77	Providing and fixing Cl Nahani trap of 12.5cms X 7.5cms approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). as per the direction of engineer in charge	Each	2.00	300.00
78	Providing and fixing in position brass ball valve high or Each low pressure with plastic float of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. as per the direction of engineer in charge	Each	2.00	431.00
79	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipes ends should be covred using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.19/20mm dia 2mm thickas per the direction of engineer in charge	Rmtr	1340.00	42.00

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80	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 25mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipes ends should be covred using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.a)25mm dia 2 mm thick as per the direction of engineer in charge	Rmtr	950.00	55.00
81	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.19/20mm dia 2mm thick as per the direction of engineer in charge	Rmtr	1050.00	54.00
82	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 25mm dia 2.mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.a)25mm dia 2 mm thick as per the direction of engineer in charge	Rmtr	350.00	56.00
83	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 32mm dia 2.5mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.32mm dia 2.5 mm thick as per the direction of engineer in charge	Rmtr	50.00	86.00
84	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of as per the direction of engineer in charge Group-A. 1.0 Sqm	Rmtr	950.00	13.00
85	1.5Sqm	Rmtr	2450.00	18.00
86	2.5Sqm	Rmtr	900.00	28.00
87	4.0Sqm	Rmtr	500.00	41.00
88	10.0Sqm	Rmtr	100.00	105.00
89	Point wiring using Copper wire without switch.Supplying and wiring adopting loop system in existing PVC Conduit/casing capping using 1100V Grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2x1.5 Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose lenght in a wood/PVC round block. complete for each outlet. as per the direction of engineer in charge Using class A materials Short point up to 3mtrs from tapping point to out let via switch	Each	30.00	140.00
90	Medium point a above 3mtr up to 6mtr from tapping point to out let via switch	Each	30.00	209.00
91	Long point a above 6mtr up to 10mtr from tapping point to out let via switch	Each	40.00	325.00
92	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve , indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required conforming to IEC60898.5-32Amps DP as per the direction of engineer in charge 5-32Amps DP MCB (,I No-6.15.5 of PWD S.R 2014-15)	No	12.00	826.00

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	5-32Amps SP MCB (,I No-6.15.1 of PWD S.R 2014-15)	No	25.00	497.00
	32-40A FP ELMCB (,I No-6.17.3 of PWD S.R 2014-15)	No	2.00	2855.00
5	16-25A DP ELMCB (,I No-6.17.1 of PWD S.R 2014-15)	No	2.00	2346.00
96	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure,III-Single Door.Group A12Way SP &N as per the direction of engineer in charge	No	2.00	1918.00
97	Supplying and fixing regular MCB distribution boards on wall/wood board/flush mounting using required clamps, bolts, nuts etc. with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with power coated painting etc., complete: Double door: 6 way TP &N , Group (A)as per the direction of engineer in charge	No	2.00	2788.00
98	Supply and fixing of bakelite D.P/Socket/ switch with/without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854 Group-A.32Amps Flush/projected types DP switch as per the direction of engineer in charge	No	35.00	205.00
99	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC Supply. Group- A.as per the direction of engineer in charge	No	5.00	1653.00
100	Fixing one exhaust fan in the nitch already left in the wall with cment mortar and colouring to match the existing wall or Brackets with bolts and nuts and 5 amps ceiling rose with sufficient length of 23 /0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frameas per the direction of engineer in charge	No	5.00	661.00
101	Supplying and fixing a drop light one PBBC/bakelite pendent holder,PVC insuleated twin twisted copper wire of 10/0.3mm length upto 1000 mm,one of 60/100 watts lamp of 230 volts grade and one of 5 amps bakelite ceiling rose fixed on the existing wooden block of the outlet Group- Aas per the direction of engineer in charge	No	70.00	118.00
102	Supplying and fixing PBBC bakelite straight or slant batten holder and wiring within 60w/230 volts Lamps- Group "A" as per the direction of engineer in charge	No	70.00	86.00
103	Supply patti type fluorescent tube light fitting of 4'- 28 watts fluorescent tube fitting, made out of M.S sheet and stove enameled with HF Electronic Ballast,locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 Volts A C Supply including T5 lamp Group - A as per the direction of engineer in charge	No	10.00	651.00
104	Supplying of recessed/surface mount aesthetic 2'x2' modular luminaries made out of single piece powder coated CRCA sheet steel accommodating all electrical accessories like Energy Saving Electronic Ballast suitable to operate on 230V 50Hz AC supply with 2x36Watts PLL compact fluorescent lamp, pre-wired up to terminal block with bright anodized aluminum reflector & P5 paralite louvers with spring loaded plastic toggles complete.2x36 Watts Group - A as per the direction of engineer in charge	No	60.00	4624.00
105	Fixing all types and all capacities of fluorescent/false ceiling/spot light/CFL fittings indoor on the wall / ceiling/ rafters / girders using 23/0.0076â twin twisted PVC insulated wires, required Nos of round blocks and clamps . On wall/ceiling/Rafter/Girdersas per the direction of engineer in charge	No	90.00	95.00

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106	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system and as per technical data approved. 48" Sweep (1400mm) a.Regular model (23/23) as per the direction of engineer in charge	No	35.00	2431.00
107	Supply and fixinjg metal fan box with round hook as per the direction of engineer in charge	No	35.00	70.00
108	Fixing a ceiling / Wall mounting fan of all capacities and all types with necessary clamps and S hook made out of 15mm dia MS rod, with 5 amps ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality mounted on a suitable size wooden board and wired as per the direction of engineer in charge	No	45.00	230.00
109	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate.. Is 3854 and IS 1293. (16/3.7) (Page No - 16, I No-3.7of PWD S.R 2014-15)6Amps SP Switch (I No-3.7.1 of PWD S.R 2014-15)	No	120.00	61.00
110	6Amps 3way 5 pin socket (I No-3.7.3 of PWD S.R 2014-15)	No	40.00	92.00
111	16Amps SP Switch (I No-3.7.7 of PWD S.R 2014-15)	No	10.00	111.00
112	16Amps 3way 5 pin Socket (I No-3.7.10 of PWD S.R 2014-15)	No	15.00	143.00
113	32Amps Flush/projected types DP switch (I No-3.7.9 of PWD S.R 2014-15)	No	5.00	159.00
114	Supplying and flush mounting powder coated metal / galvanised metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall (15/3.5) as per the direction of engineer in charge 1-3Way(I No-3.5.1of PWD S.R 2014-15)	No	20.00	88.00
115	4-5Way (I No-3.5.2of PWD S.R 2014-15)	Each	5.00	95.00
116	6Way (I No-3.5.3of PWD S.R 2014-15)	Each	10.00	118.00
117	8Way (I No-3.5.4of PWD S.R 2014-15)	Each	2.00	136.00
118	10-12Way (I No-3.5.5of PWD S.R 2014-15)	Each	2.00	155.00
119	16Way (I No-3.5.6of PWD S.R 2014-15)	Each	6.00	167.00
120	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.(15/16/3.6) as per the direction of engineer in charge 1 to 3 Module (I No-3.6.1of PWD S.R 2014-15)	Each	20.00	80.00
121	4Moudule (I No-3.6.2 of PWD S.R 2014-15)	Each	5.00	97.00
122	6Moudule (I No-3.6.3 of PWD S.R 2014-15)	Each	10.00	122.00
123	8Moudule (I No-3.6.4 of PWD S.R 2014-15)	Each	2.00	170.00
124	10Moudule (I No-3.6.5 of PWD S.R 2014-15)	Each	2.00	204.00
125	12Moudule (I No-3.6.6 of PWD S.R 2014-15)	Each	6.00	224.00
126	19/20mm junction box as per the direction of engineer in charge	Each	100.00	46.00
127	Supplying wall mounting fan suitable to operate at single-phase 230 V A.C. supply,(84/9.4)as per the direction of engineer in charge	Each	10.00	2464.00
128	Supplying and fixing of class A (medium duty)GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arraingements for UG cable of 1.1KV class.40mm as per the direction of engineer in charge	Rmtr	35.00	336.00

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	pplying, fixing ,wiring, earth electrode for grounding conduits, I C utouts and other equipments on the meter board using 40mm dia 2.9mm hick GI pipe 2.5 mtr long buried in a pits, the pit should be filled with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connectionh from the pipe to the conduit etc, is to be established through GI wire of size as per ISI Specification 7.3.3. of IS 732 using 12mm dia bolts, nuts,wahers anfd check nuts etc,the pipe shall have 16 through hole of 122 mm dia(68/1) as per the direction of engineer in charge	No	4.00	2662.00
	Suppling and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps,nails,guttas/spacers. GI Wire c) 8SWG as per the direction of engineer in charge	Rmtr	90.00	19.00
	Supplying tinned copper lugs crimping and wiring to terminal point for wire of the following sizes.2.5sqmm. as per the direction of engineer in charge	No	110.00	3.00
2	Supplying tinned copper lugs crimping and wiring to terminal point for wire of the following sizes.-35Sqmm Long Barrel as per the direction of engineer in charge	No	8.00	35.00
133	Supplying surface mounted type mirror optic luminaries for single/Twin 28watts fluorescent lamps cross rising of stove enameled deep coloured M.S.low profile housing complete with all accessories and high purity anodized aluminum reflector assembling along with cross louvers including necessary fluorescent tubes with Energy Saving Electronic Ballast. (21/4.9) as per the direction of engineer in charge 2x4'-28 Watts	Each	60.00	3917.00
134	2x4'-28 Watts	Each	10.00	2668.00
135	Supply box type suitable for 20W T5 single/twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holder & main connectores. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enamelled whith end caps made of engineering plastic. (20/4.7) as per the direction of engineer in charge	Each	10.00	963.00
136	Supplying CFL mirror light fitting with 2x11W CFL lamp, choke, Perspex cover and completely wired for use on 230V 50Hz AC (25/4.25) as per the direction of engineer in charge	Each	4.00	630.00
137	Fixing all types and all capacities of fluorescent /False ceiling/spot light /CFL/LED fittings indoor on the wall/ ceiling/rafters/girders using 23/0.0076' twin twisted PVC insulated wires, required Nos of round blocks and clamps.as per the direction of engineer in charge	Each	84.00	95.00
138	Providing and Filling in foundation with granite / trap cum broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead upto 50m.and lift of 1.5m,complete as per specifications, (PWP,IWTD) as per the direction of engineer in charge	Cum	61.57	2220.00

CONTRACTOR

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